

Work Order ID 146724

Wednesday, June 15, 2016 10:07:31 AM

146724

Page 1

Item ID: 647.7810

Revision ID:

Item Name: Bracket A

Start Date: 5/24/2016 Start Qty: 6.00

Required Date: 6/17/2016 Req'd Qty: 6.00

Reference:

Accept

N900040100

Setup Start ***NS1***

Stop ***NS2***

Cust Item ID:

Customer:

Approvals: Process Plan: Date: Tooling: Date:

QC: Date: SPC (Y/N): Date:

Run Start ***NR1***

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
647.7800	A

100	BAND SAW	0.02							DAS 14 9-09
100									
Bandsaw	Memo	0.50							
Jeaspa Bandsaw	Cut Blank at 10.313"								16/06/17

110	HAAS CNC VERTICAL MACHINING #1	0.08							
110									
HAAS 1	Memo	0.28							
HAAS CNC vertical machine #1	1-Machine per folio FB408 DWG REV: <u>A</u> FOLIO REV: <u>AP</u>								16-6-18

2- deburr and break all sharp edges

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					

Root Cause				FAULT CATEGORY			
Environment ☐	☐ No Re-verification	☐ Pressure/Forced	☐ Temperature/Cure	☐ Power Loss/Surge	☐ Positioned Wrong		
Design ☐	☐ Operator	☐ Bending	☐ Set-up	☐ Folio/Program	☐ Outside Dimensions		
Doc/Data ☐	☐ Offset/Setup	☐ Centre Not Concentric	☐ BOM/Route	☐ Grain	☐ Over/Under tolerance		
Equip/Tooling ☐	☐ Supplier	☐ Cracks	☐ Broken/Damage/Defect	☐ Weld	☐ Part Incorrect		
Handling/Pre ☐	☐ Training	☐ Crimp/Kink/Ripple/Wave	☐ Inspection Incomplete/Unqualified	☐ Wrong Stock Pulled	☐ Part Lost/Missing		
Material ☐	☐ Use for Testing	☐ Cuffs	☐ Contamination	☐ Out of Sequence	☐ Part Moved		
Internal Transport ☐	☐ Poor Information	☐ Crushing	☐ Countersink	☐ Off-set	☐ Drawing		
Tribal Knowledge ☐	☐ Rushing	☐ Heat Treat	☐ Cut Too Short	☐ Mislabeled	☐ Finish		
LOA ☐	☐ Product Improvement	☐ Wave/Twist in Tube	☐ Instructions Incomplete/Unclear	☐ Fit/Function	☐ Misread		
Substation ☐	☐ Process Improvement	☐ Marks/Chatter	☐ Drill Holes	☐ Misaligned/off center	☐ Turning Sequence		
Past Expiry Date ☐	☐ Manufacturing Process	OTHER : _____					
Misidentified ☐	☐ Past Due						

146724

Wednesday, June 15, 2016 10:07:31 AM

Accept

N900040100

Setup Start *NS1*

Stop *NS2*

Stop *NS2*

6

Cust Item ID:

6

Customer:

Reference:

Run Start *NR1*

Approvals: **Process Plan:** _____ **Date:** _____ **Tooling:** _____ **Date:** _____

Stop ***NR2***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

120

QC2- Inspect parts off machine FAI/FAIB

0.00

120

OC

Memo

0.10

Quality Control

130

QC8- Inspect parts - second check

0.00

130

OC

Memo

0.20

Quality Control

131

0.00

131

HandFinish

Memo

1.00

Hand Finishing

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____		MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Description Work Order Deviation				Disposition			

Root Cause				FAULT CATEGORY			
Environment ☐	☐ No Re-verification	Pressure/Forced ☐		Temperature/Cure ☐		Power Loss/Surge ☐	☐ Positioned Wrong
Design ☐	☐ Operator	Bending ☐		Set-up ☐		Folio/Program ☐	☐ Outside Dimensions
Doc/Data ☐	☐ Offset/Setup	Centre Not Concentric ☐		BOM/Route ☐		Grain ☐	☐ Over/Under tolerance
Equip/Tooling ☐	☐ Supplier	Cracks ☐		Broken/Damage/Defect ☐		Weld ☐	☐ Part Incorrect
Handling/Pre ☐	☐ Training	Crimp/Kink/Ripple/Wave ☐		Inspection Incomplete/Unqualified ☐		Wrong Stock Pulled ☐	☐ Part Lost/Missing
Material ☐	☐ Use for Testing	Cuffs ☐		Contamination ☐		Out of Sequence ☐	☐ Part Moved
Internal Transport ☐	☐ Poor Information	Crushing ☐		Countersink ☐		Off-set ☐	☐ Drawing
Tribal Knowledge ☐	☐ Rushing	Heat Treat ☐		Cut Too Short ☐		Mislabeled ☐	☐ Finish
LOA ☐	☐ Product Improvement	Wave/Twist in Tube ☐		Instructions Incomplete/Unclear ☐		Fit/Function ☐	☐ Misread
Substation ☐	☐ Process Improvement	Marks/Chatter ☐		Drill Holes ☐		Misaligned/off center ☐	☐ Turning Sequence
Past Expiry Date ☐	☐ Manufacturing Process	OTHER : _____					
Misidentified ☐	☐ Past Due						

Work Order ID 146724

146724

Page 3

Wednesday, June 15, 2016 10:07:31 AM

Item ID: 647.7810 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: Bracket A
 Start Date: 5/24/2016 Start Qty: 6.00 ***6*** Cust Item ID:
 Required Date: 6/17/2016 Req'd Qty: 6.00 ***6*** Customer:
 Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
140	Outsource process-Anodize per QSI017 4.1.10.1	0.00							
140									
Outsource4	Memo	179.99							
Outsource process - Anodize	Issue P/O to ATG : <u>32760</u>								
	1- Black Anodize as per Dwg 647.7800								
	2- PRIME AS PER DWG, SEE NOTE #2								
	Certification of Comformity is required								
150	Receive & Inspect for Damage & Mat'l Certs	0.00							
150									
Packaging	Memo	0.02							
Packaging									
155	QC5- Inspect part completeness to step on W/O	0.00							
155									
QC	Memo	0.20							
Quality Control									

6x SP/6-6-24.

② DAS 38 9-89 JUN 24 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QS1042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

Work Order ID 146724

146724

Page 4

Wednesday, June 15, 2016 10:07:31 AM

Item ID: 647.7810 Accept *N900040100* Setup Start *NS1*
 Revision ID: Stop *NS2*
 Item Name: Bracket A
 Start Date: 5/24/2016 Start Qty: 6.00 *6* Cust Item ID:
 Required Date: 6/17/2016 Req'd Qty: 6.00 *6* Customer:
 Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start *NR1*
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
180	Identify as per dwg & Stock Location: CC K OISA	0.00					DAS 21 9-89		JUN 24 2016
180	Packaging	Memo							
Packaging		0.01							
	IDENTIFY AS PER APICAL MPP-120 BY STAMPING P# AND REV								
190	QC21- Final Inspection - Work Order Release	0.00							
190	QC	Memo							
Quality Control		0.10							

16/6/27

DAS
21
9-89 JUN 24 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : ☐					

Picklist Print

Wednesday, June 15, 2016 10:07:30 AM

Page 1

Work Order ID: 146724

146724

Parent Item: 647.7810

647 7810

Parent Item Name: Bracket A

Start Date: 5/24/2016

Required Date: 6/17/2016

Start Qty: 6.00

Required Qty: 6.00

Comments: IPP Rev: A RQ 15.08.06 Verified by DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M7075T6B6.000X0.250		Purchased			No	100	f	27.6878	0.859	5.425263			

M7075T6B6 000X0 250

7075-T6 BAR 6.000" X 0.250"

Location

Loc Qty

Loc Code

MAT005

27.6878

M133426

2.03

M133829

1.6578

→ M134701

24

5.43

ml 16/06/17

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

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REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
	LAST PROTOTYPE RELEASE: PER		MC
MC	NEW RELEASE	12-21-09	P. BRAVO
A	INCORPORATED PER 03120, 04487, & 05025	03-09-10	P. BRAVO

NOTES:

- 1 MATERIAL: ALUMINUM 7075-T651 PER AMS-QQ-A-250/12
- 2 FINISH IAW MPP-172 SECTION 3.3 & 4.3.
3. DEBURR AND BREAK ALL SHARP EDGES
4. IDENTIFY IAW MPP-120

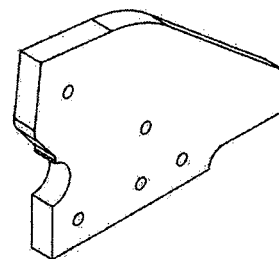
		647.7823	CROSS BRACKET AFT	△	△																								
		647.7822	EYE BOLT FITTING RH	△	△																								
		647.7821	EYE BOLT FITTING LH	△	△																								
		647.7820	CROSS BRACKET AFT	△	△																								
		647.7819	CROSS BRACKET FWD	△	△																								
		647.7818	MOUNTING CHANNEL	△	△																								
		647.7817	AFT BRACKET	△	△																								
		647.7816	AFT BRACKET	△	△																								
		647.7815	FORWARD BRACKET	△	△																								
		647.7814	FORWARD BRACKET	△	△																								
		647.7813	CENTER PLATE LOWER	△	△																								
		647.7812	CENTER PLATE UPPER	△	△																								
		647.7811	BRACKET B	△	△																								
		647.7810	BRACKET A	△	△																								
	F/N	PART #	DESCRIPTION	MATL	SPEC																								
QTY		PARTS LIST																											
NEXT ASSY (S)		ORIGINAL DATE: 11-03-09 DRAWN BY: CHECKER E. ANDERSON P. BRAVO DRAWING APPROVAL: P. BRAVO 12-21-09 CONTRACT NO. UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES ARE: 1 PLACE DECIMALS ±.01 2 PLACE DECIMALS ±.005 ANGLES ±.5° DART AEROSPACE APICAL INDUSTRIES, INC. DBA DART AEROSPACE 3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300 BRACKET <tr><td colspan="2">647.7300</td></tr> <tr><td colspan="2"></td></tr> <tr><td colspan="2"></td></tr> <tr><td colspan="2">SIZE</td><td>CAGE CODE</td><td>DWG. NO.</td><td colspan="2">REV.</td></tr> <tr><td colspan="2">B</td><td>07M26</td><td>647.7800</td><td colspan="2">A</td></tr> <tr><td colspan="2">SCALE</td><td colspan="2">NONE</td><td colspan="2">SHEET 1 OF 10</td></tr>				647.7300						SIZE		CAGE CODE	DWG. NO.	REV.		B		07M26	647.7800	A		SCALE		NONE		SHEET 1 OF 10	
647.7300																													
SIZE		CAGE CODE	DWG. NO.	REV.																									
B		07M26	647.7800	A																									
SCALE		NONE		SHEET 1 OF 10																									

w/o 146724

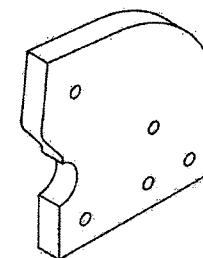
2m 16/05/24

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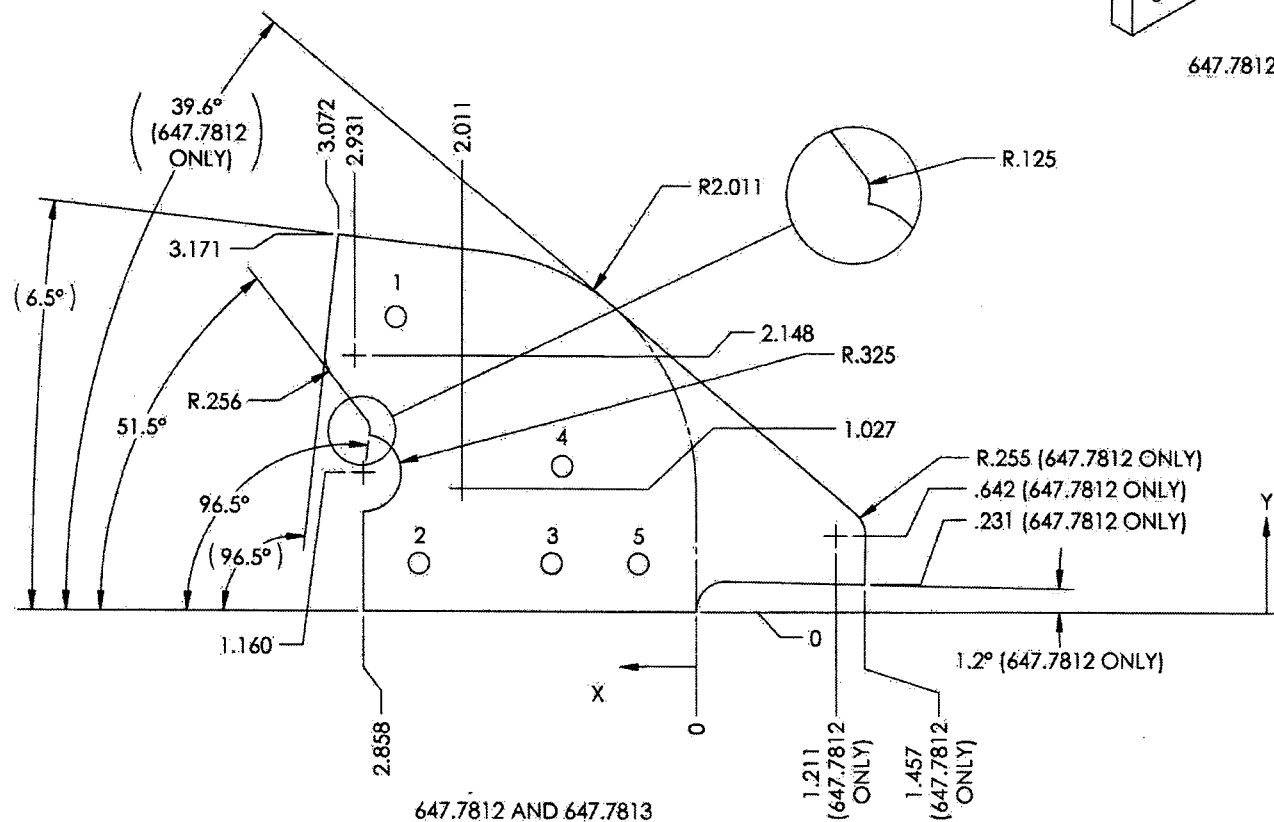
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3	1.250±.002	.400±.002	Ø.177 THRU
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5	.500±.002	.400±.002	Ø.177 THRU



647.7812



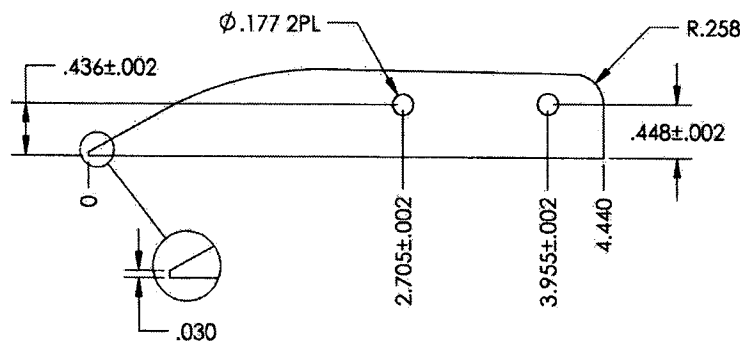
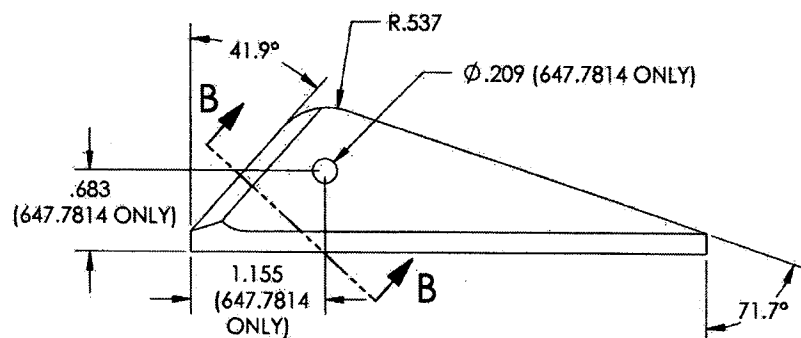
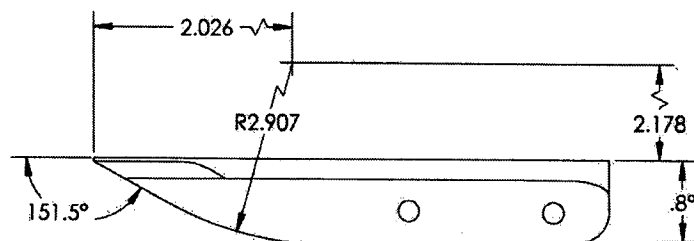
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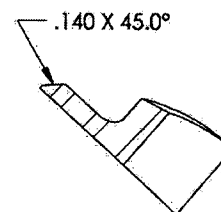
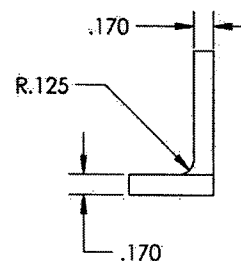
647.7812 AND 647.7813

ORIGINAL DATE: 11.05.09		3030 ENTERPRISE CT., SUITE A	
DRAWN BY: E. ANDERSON		VISTA, CA. 92081	
CHECKED BY: P. BRAY		(760)-724-5300	
DRAWING APPROVAL: P. BRAY		APICAL INDUSTRIES INC. DBA DART AEROSPACE	
CONTRACT NO.		BRACKET	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES 1°-5°	SHEET: 07/26/16	DWG. NO.: 647.7800	REV. A
SCALE: NONE		SHEET: 3 OF 10	

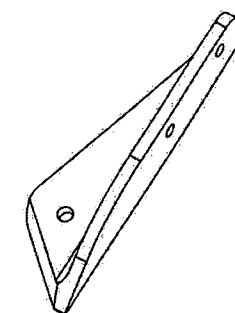
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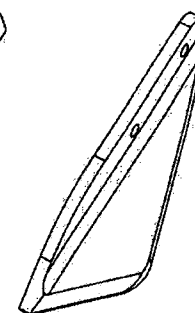
647.7814 SHOWN
647.7815 OPPOSITE



SECTION B-B



647.7814

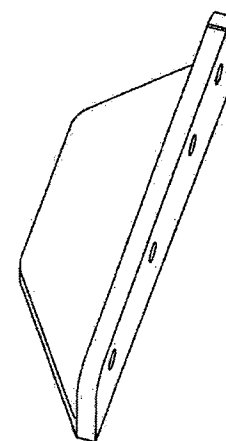
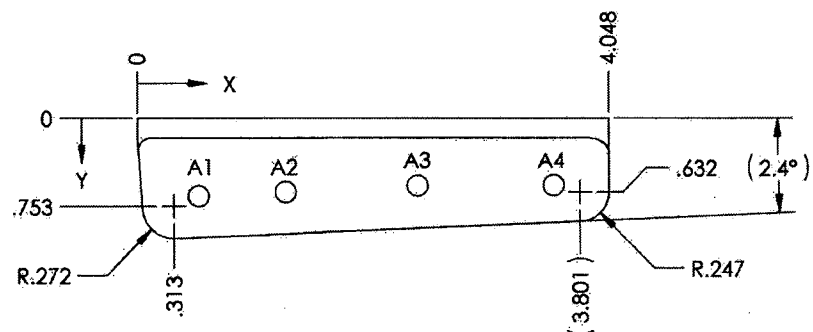


647.7815

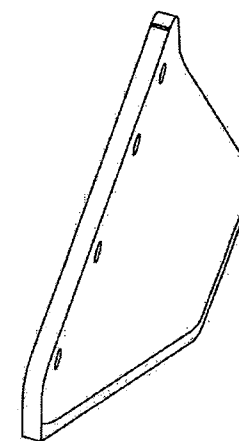
ORIGINAL DATE (MAG-DA-151) 11-03-09		DART 3030 ENTERPRISE CT., AEROSPACE SUITE A VISTA, CA. 92081 (760) 724-5300	
DRAWN BY: J. ANDERSON CHECKED BY: J. BRAVO DESIGNED BY: J. BRAVO DATE: 10-21-09 CONTRACT NO.		SCALE: NONE	
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES ARE: 3 PLACE DECIMALS ±.01 2 PLACE DECIMALS ±.005 ANGLES ±.5°		SIZE: B CAGE CODE: 07M26	REV. A
		DWG. NO. 647.7800	SHEET 4 OF 10

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.

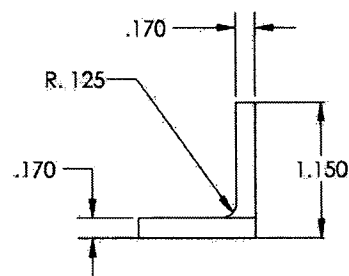
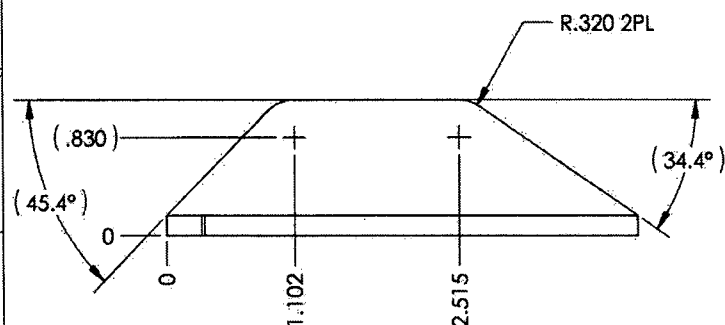
TAG	X LOC	Y LOC	SIZE
A1	.527±.002	.666±.002	Ø.177 THRU
A2	1.276±.002	.631±.002	Ø.177 THRU
A3	2.404±.002	.578±.002	Ø.177 THRU
A4	3.576±.002	.573±.002	Ø.177 THRU



647.7816



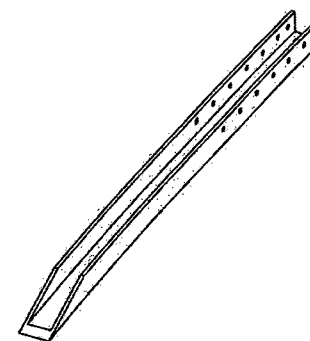
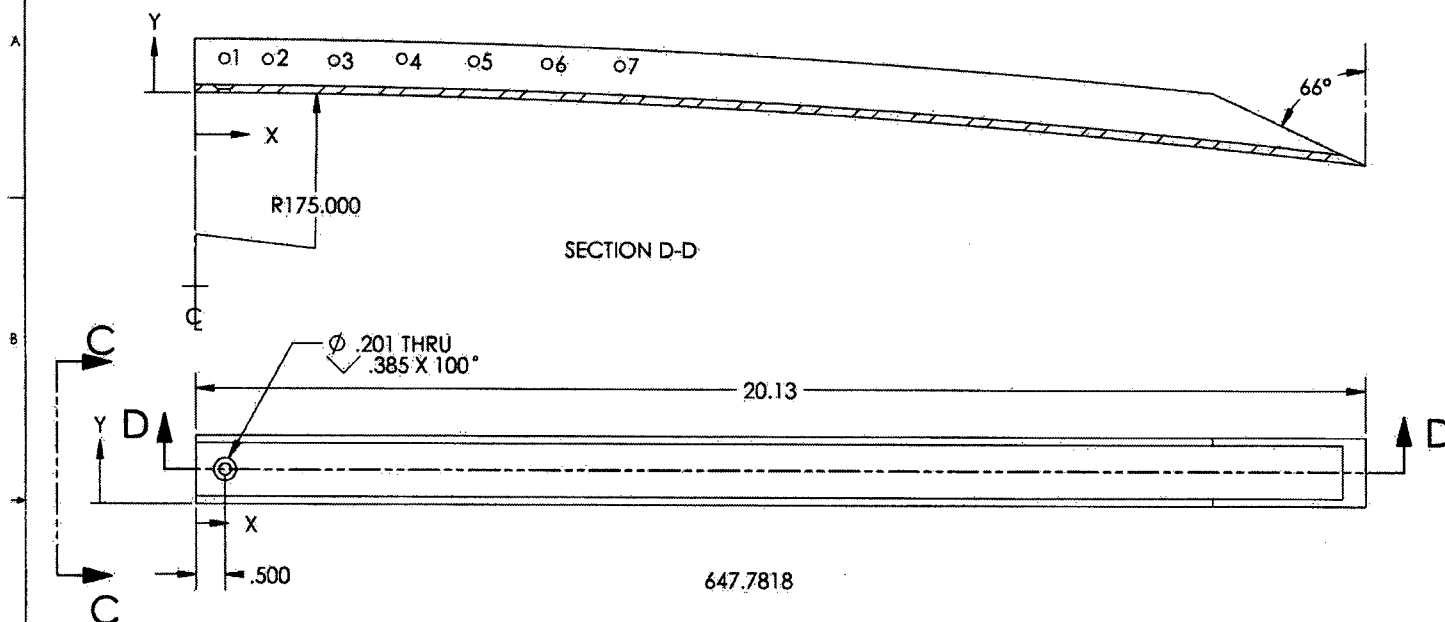
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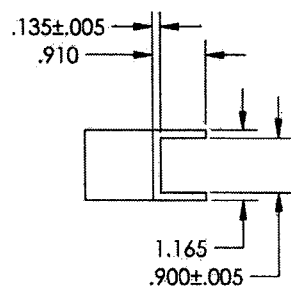
647.7816 SHOWN
647.7817 OPPOSITE

ORIGINAL DATE 11-09-09		3030 ENTERPRISE CT., SUITE A VISTA, CA, 92081 (760)-724-5300	
DRAWN BY I. ANDERSON P. BRAVO		DART AEROSPACE	
DRAWING APPROVAL P. BRAVO		APICAL INDUSTRIES INC. dba DART AEROSPACE	
CONTRACT NO.		BRACKET	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SEE CAGE CODE B 07NM26	DWG. NO. 647.7800
SCALE NONE		REV. A	
		SHEET 5 OF 10	

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.



647.7818



SECTION C-C

TAG	X LOC	Y LOC	SIZE
1	.506±.002	.578±.002	Ø.177 THRU
2	1.256±.002	.566±.002	Ø.177 THRU
3	2.386±.002	.549±.002	Ø.177 THRU
4	3.557±.002	.581±.002	Ø.177 THRU
5	4.806±.002	.544±.002	Ø.177 THRU
6	6.055±.002	.507±.002	Ø.177 THRU
7	7.305±.002	.470±.002	Ø.177 THRU

ORIGINAL DATE 11-05-09
 DRAWN BY: S. CREAGER
 E. ANDERSON P. BRAVO
 DRAWING APPROVAL
 P. BRAVO
 11/2/09
 CONTRACT NO.

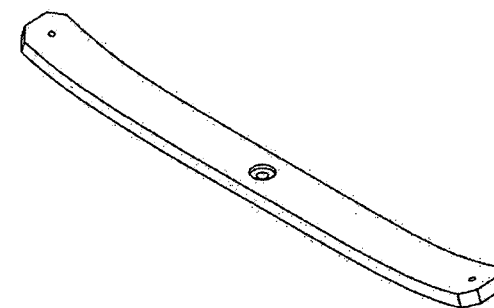
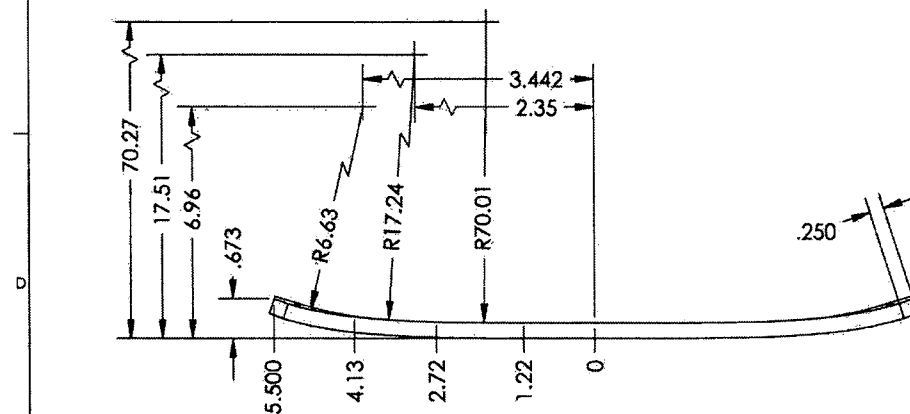
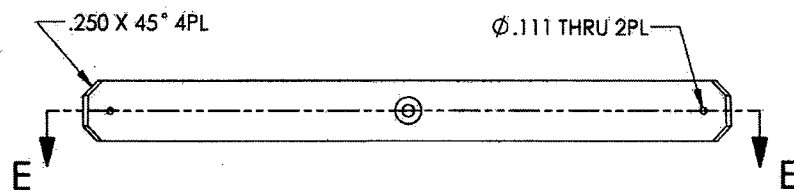
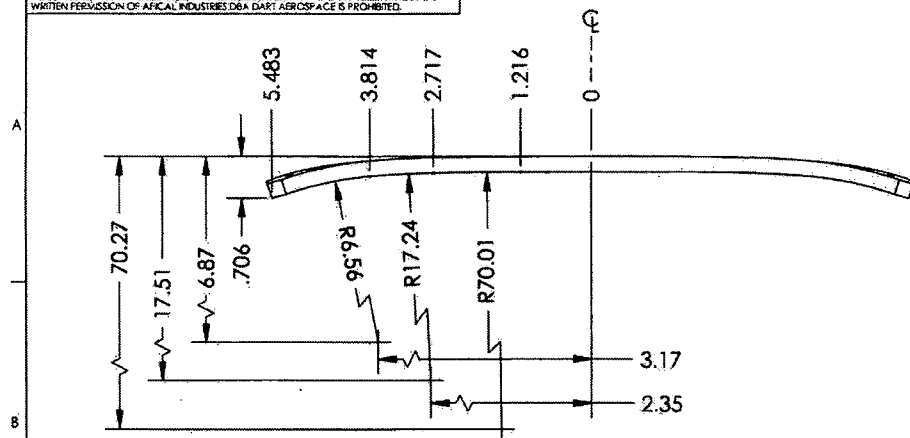
DART 3030 ENTERPRISE CT.
 AEROSPACE SUITE A
 VISTA, CA. 92081
 APICAL INDUSTRIES, INC.
 (DBA) DART AEROSPACE
 (760) 724-5300

BRACKET

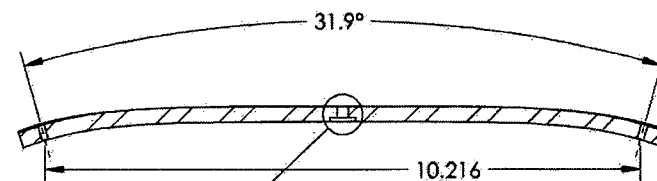
UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 3 PLACE DECIMALS ±.01
 2 PLACE DECIMALS ±.005
 ANGLES ±.5°

SIZE B	CAGE CODE 07MZ6	DWG. NO. 647.7800	REV. A
SCALE: NONE		SHEET 6 OF 10	

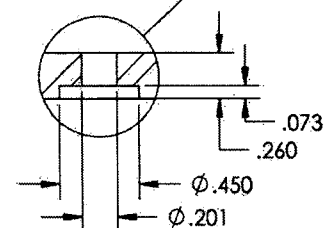
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.



647.7819

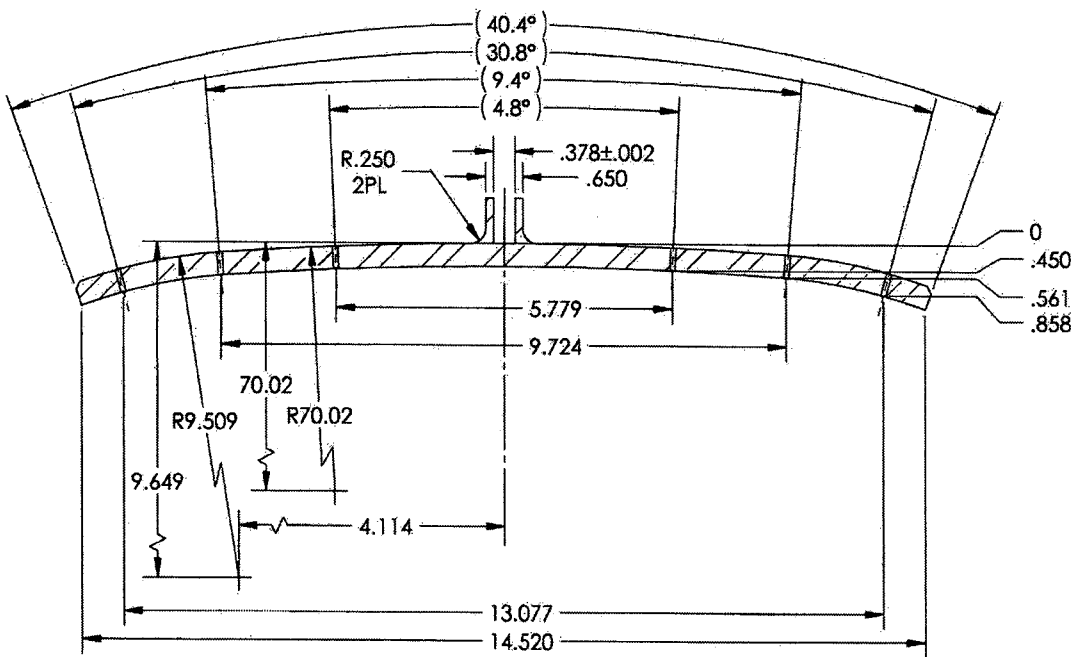
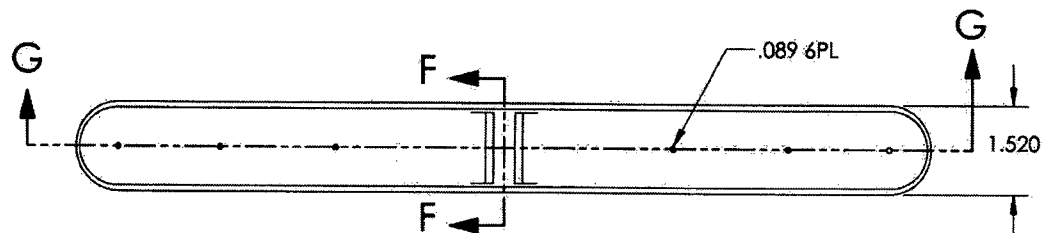


SECTION E-E

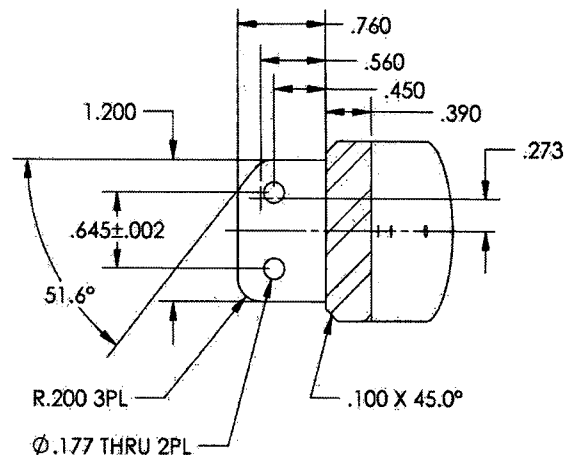
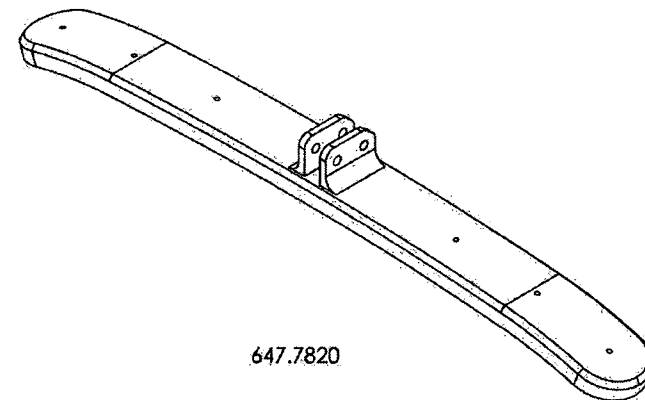


ORIGINAL DATE 11-05-09	3030 ENTERPRISE CT., SUITE A VISTA, CA 92081 (760) 724-5300
DRAWN BY E. ANDERSON	APICAL INDUSTRIES, INC. DBA DART AEROSPACE
CHECKED BY P. BRAVO	
DRAWING APPROVAL P. BRAVO	
CONTRACT NO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°	SCALE NONE
SHEET 7 OF 10	

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.



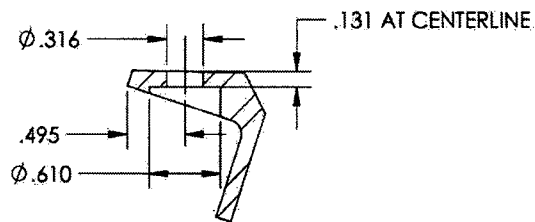
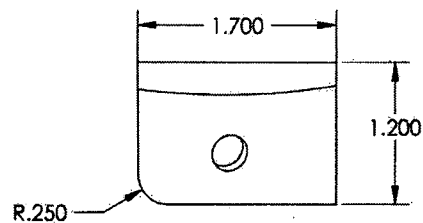
SECTION G-G



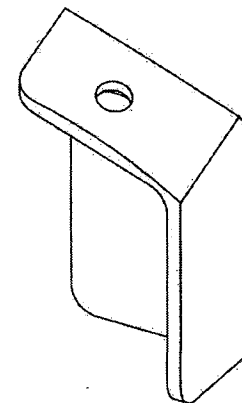
SECTION F-F

ORIGINAL DATE: 11-05-00	DART AEROSPACE 3030 ENTERPRISE CT., SUITE A, VISTA, CA 92081 (760) 724-5300	
DRAWN BY: F. ANDERSON	CHECKED BY: P. BRAVO	
DESIGNED BY: F. ANDERSON	APPROVED BY: P. BRAVO	
CONTRACT NO.		
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES ARE: 2 PLACE DECIMALS .001 3 PLACE DECIMALS .0005 ANGLES ± .5°		
REV. 8	CAGE CODE 07M16	QWG. NO. 647.7800
SCALE: NONE		REV. A
SHEET 8 OF 10		

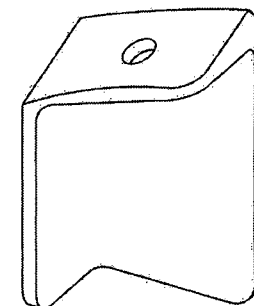
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.



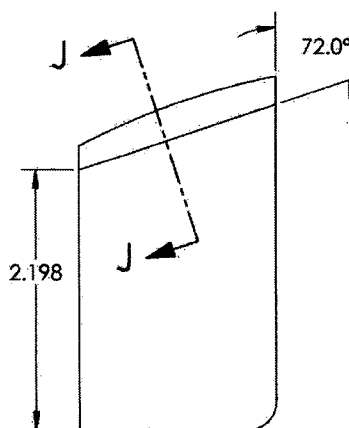
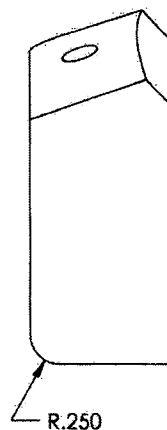
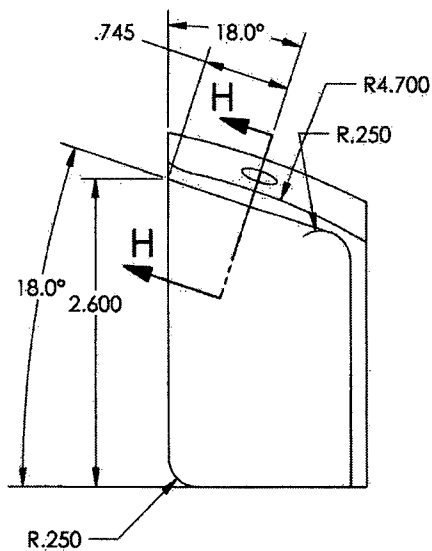
SECTION H-H



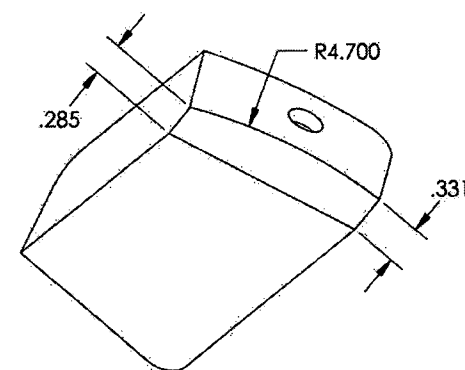
647.7821



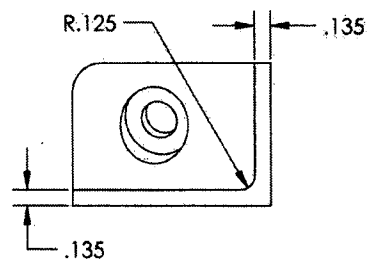
647.7822



SECTION J-J



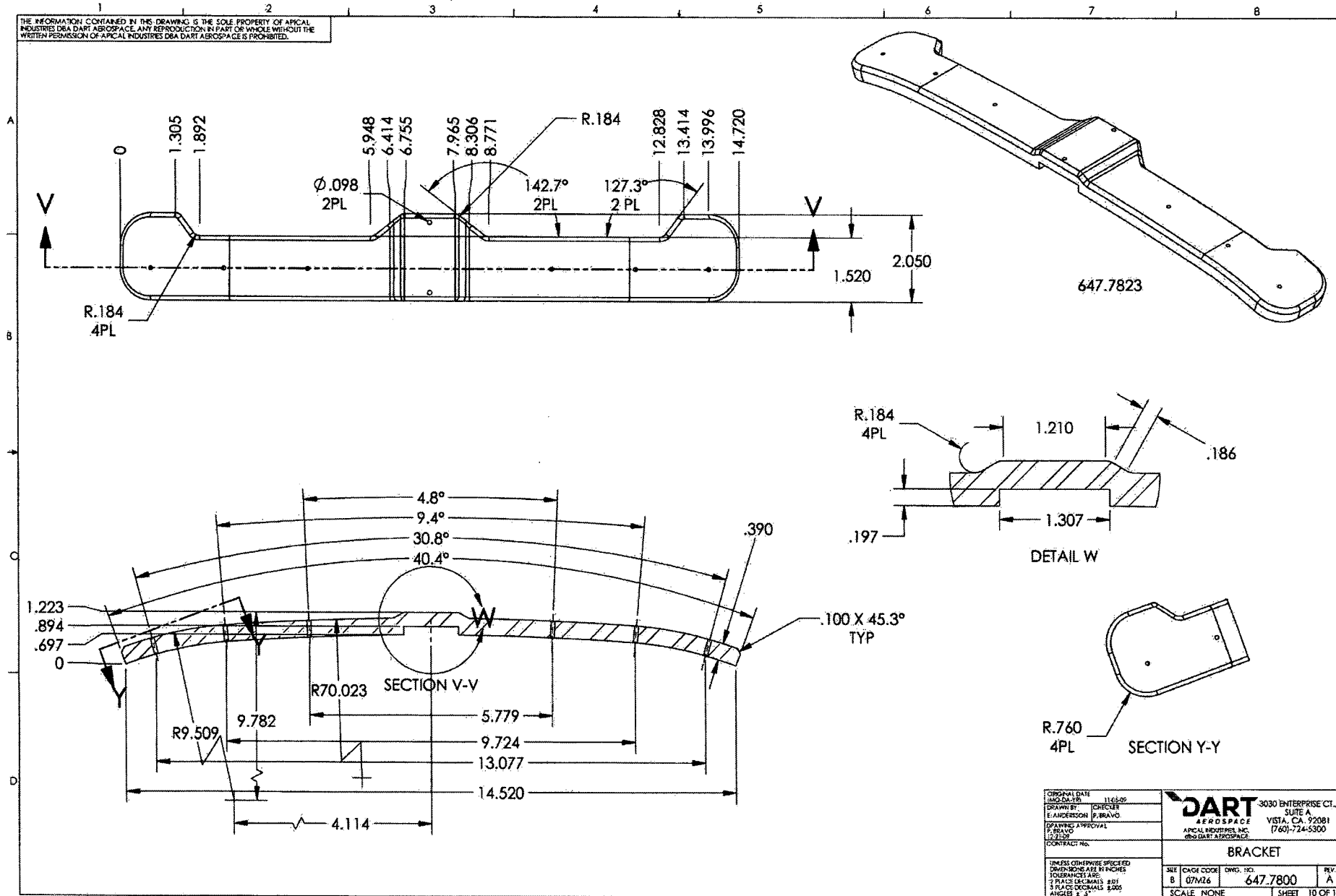
SECTION K-K



647.7821 SHOWN
647.7822 OPPOSITE

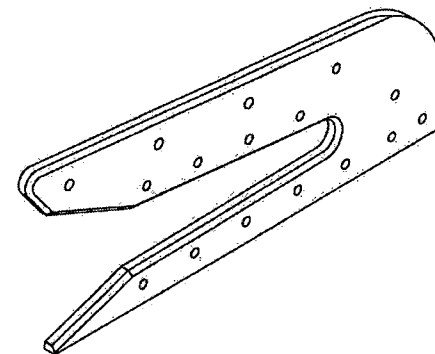
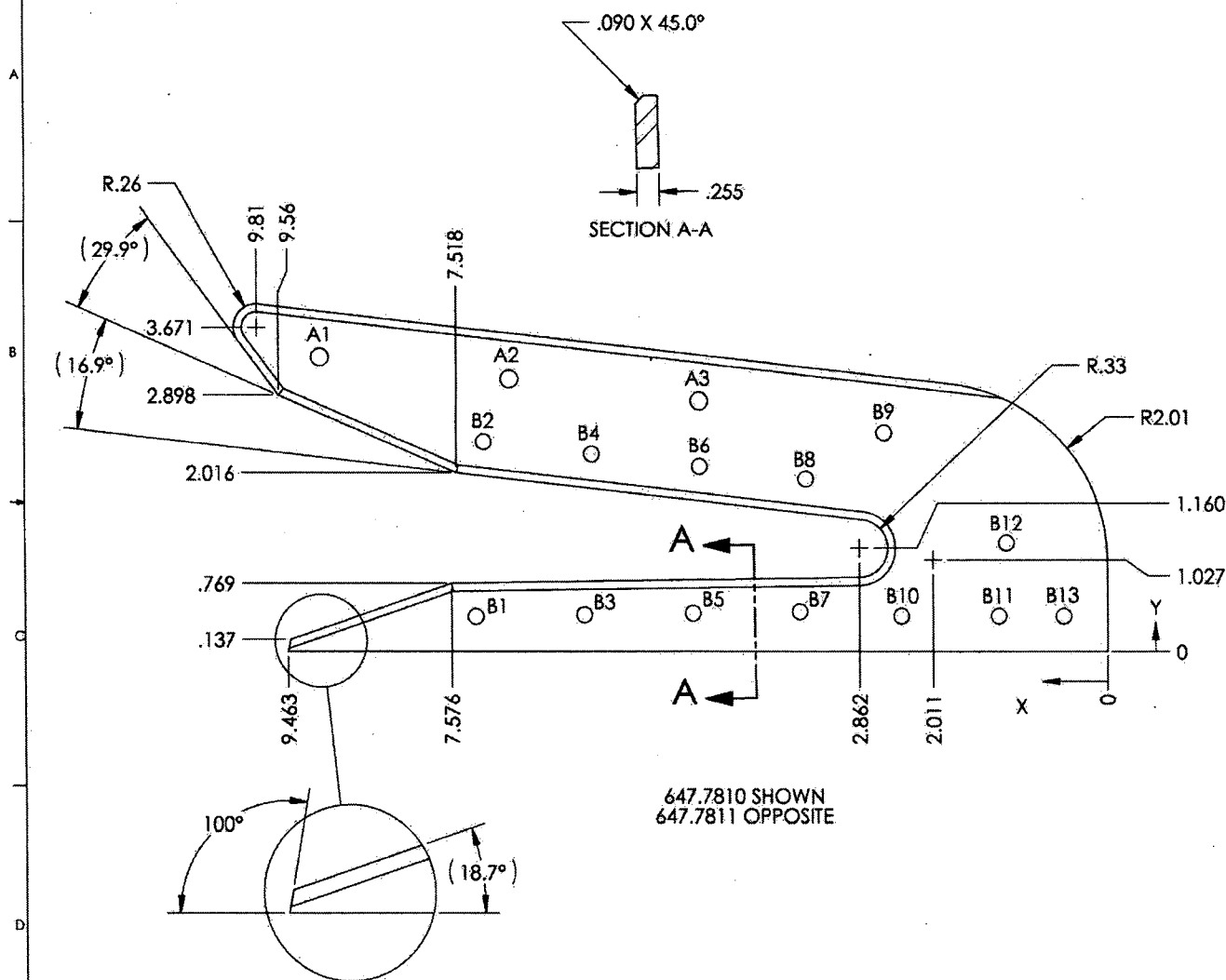
ORIGINAL DATE: 11-18-09		DART 3030 ENTERPRISE CT., SUITE A	
DRAWN BY: CHUCKER		VISTA, CA 92081	
E. ANDERSON P. BRAVO		(760) 724-5330	
DRAWING APPROVAL: [Signature]		APICAL INDUSTRIES, INC. DBA DART AEROSPACE	
CONTRACT NO.:		BRACKET	
UNLESS OTHERWISE SPECIFIED	SEE (CAGE CODE)	DWG. NO.	REV.
DIMENSIONS ARE IN INCHES	B	07N26	647.7800 A
TOLERANCES ARE:	SCALE: NONE	SHEET 9 OF 10	
2 PLACE DECIMALS ±.01			
3 PLACE DECIMALS ±.005			
ANGLES ±.5°			

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ORIGINAL DATE 11/05/05	3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760) 724-5300
DRAWN BY E. ANDERSON	CHECKED P. BLAVO
DRAWING APPROVAL P. BLAVO	APICAL INDUSTRIES INC. DBA DART AEROSPACE
CONTRACT NO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS .001 3 PLACE DECIMALS .0005 ANGLES .1°	
SHEET B	CAGE CODE 07M26
QWID. NO. 647.7800	REV. A
SCALE NONE	SHEET 10 OF 10

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647.7810
647.7811 OPPOSITE

TAG	X LOC	Y LOC	SIZE
A1	9.092±.002	3.332±.002	Ø.201 THRU
A2	6.906±.002	3.083±.002	Ø.201 THRU
A3	4.720	2.835±.002	Ø.201 THRU
B1	7.300±.002	.397±.002	Ø.177 THRU
B2	7.203±.002	2.369±.002	Ø.177 THRU
B3	6.050±.002	.415±.002	Ø.177 THRU
B4	5.961±.002	2.228±.002	Ø.177 THRU
B5	4.800±.002	.433±.002	Ø.177 THRU
B6	4.719±.002	2.088±.002	Ø.177 THRU
B7	3.550	.450	Ø.177 THRU
B8	3.476	1.947	Ø.177 THRU
B9	2.575	2.475	Ø.177 THRU
B10	2.380	.400	Ø.177 THRU
B11	1.250	.400	Ø.177 THRU
B12	1.160	1.220	Ø.177 THRU
B13	.500	.400	Ø.177 THRU

ORIGINAL DATE 11-05-09	3030 ENTERPRISE CT., SUITE A VISTA, CA 92081 (760)-724-5300 DBA DART AEROSPACE	
DRAWN BY T. ANDERSON P. BRAVO	DART AEROSPACE	
DRAWING APPROVAL P. BRAVO 10/21/09	APICAL INDUSTRIES INC. DBA DART AEROSPACE	
CONTRACT NO.	BRACKET	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°	SIZE B	CAGE CODE D7M26
	DWG. NO. 647.7800	REV. A
SCALE NONE	SHEET 2 OF 10	



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO32760

Purchase Order Date 6/20/2016

PO Print Date 6/23/2016

Page Number 1 of 6

Order From :

VC-ATG001

Ship To : DART AEROSPACE LTD

A.T.G. INDUSTRIES INC.
731 INDUSTRIELLE ROAD
ROCKLAND, ON K4K 1T2
CANADA

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

E-MAILED

JUN 23 2016

Contact Name

Vendor Phone

613-446-4544

Ship To Contact

Ship To Phone

Ship Via:

VENDOR'S TRUCK

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
Line Comments		Promise Date					
Delivery Comments							

1	146724	647.7810 BRACKET REV. A	6/24/2016		6.00 ✓	\$14.50	\$87.00
			Yes				
			6/24/2016				

FINISH: HARD BLACK ANODIZE AS PER IAW MIL-A-8625 TYPE III, CLASS 2 / PRIME AS PER IAW MIL-P-23377J TYPE 1 CLASS N

RUSH REQUIRE 3 PCS FOR FRIDAY JUNE 24 OR BEFORE

Line Total: \$87.00

2	146725	647.7811 BRACKET REV. A	6/24/2016		6.00 ✓	\$14.50	\$87.00
			Yes				
			6/24/2016				

FINISH: HARD BLACK ANODIZE AS PER IAW MIL-A-8625 TYPE III, CLASS 2 / PRIME AS PER IAW MIL-P-23377J TYPE 1 CLASS N

RUSH REQUIRE 3 PCS FOR FRIDAY JUNE 24 OR BEFORE

Line Total: \$87.00

Note:

6/23/2016



A.T.G. INDUSTRIES INC.
731 INDUSTRIELLE STREET
ROCKLAND, ON K4K 1T2
Canada

Ph: (613) 446-4544

Fax: (613) 446-4556

Pack List

Number: 911883

Date: 24-Jun-16

To

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ship To

CHANTAL LAVOIE
Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ph: 613 632-9577

Fax: 613 632-1053

Ph: 613 632-9577

Fax: 613 632-1053

Terms		Ship Via	
Quantity	Description		
PLEASE REFERENCE THE PACK LIST NUMBER ON ALL CORRESPONDENCE TO THIS SHIPMENT.			
IF YOU HAVE ANY QUESTIONS, PLEASE CALL AT (613) 446-4544.			
6 ea	Part: 146724 647.7810-Bracket Job: 19695	PO: 32760	Rev: A Line: 1
6 ea	Part: 145725 647.7811 Bracket Job: 19696	PO: 32760	Rev: A Line: 2
6 ea	Part: 141032 647.7611 Lower deflector Job: 19697	PO: 32760	Rev: N/C Line: 3
7 ea	Part: 146990 646.9713 Job: 19698	PO: 32760	Rev: D Line: 4
DATE: <u>24/06/16</u>			
CERTIFIED SIGNATURE: <u>[Signature]</u>			
RECEIVER SIGNATURE: _____			
Note: This Packing Slip may contain parts that have been PLATED. Items that are plated may be subject to natural tarnishing and it is suggested that they be inspected within 24 hours of receipt.			
CERTIFICATE OF CONFORMANCE			
A.T.G. INDUSTRIES INC. CERTIFIES THAT ALL ITEMS IN THIS SHIPMENT CONFORM TO REQUIREMENTS.			
MADE IN CANADA.			